

PCT REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty

For receiving Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

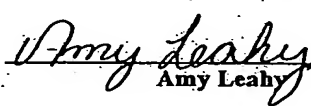
Applicant's or agent's file reference
(if desired) (12 characters maximum) 890003-2003.WO

Box No. I TITLE OF INVENTION HOMOLOGOUS RECOMBINATION IN MULTIPOTENT ADULT PROGENITOR CELLS	
Box No. II APPLICANT <input type="checkbox"/> This person is also inventor.	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) REGENTS OF THE UNIVERSITY OF MINNESOTA 110 Washington Avenue South Minneapolis, MN 55455 United States of America	Telephone No. Facsimile No. Teleprinter No. Applicant's Registration No. with the Office
State (that is, country) of nationality: <div style="text-align: center;">US</div>	State (that is, country) of residence: <div style="text-align: center;">US</div>
This person is applicant for the purposes of: <input type="checkbox"/> all designated states <input checked="" type="checkbox"/> all designated states except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the states indicated in the Supplemental Box	
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) VERFAILLIE, Catherine 585 Cretin Avenue South St. Paul, MN 55116 United States of America	This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (if this check-box is marked, do not fill in below.) Applicant's registration No. with the Office:
State (that is, country) of nationality: <div style="text-align: center;">US</div>	State (that is, country) of residence: <div style="text-align: center;">US</div>
This person is applicant for the purposes of: <input type="checkbox"/> all designated states <input type="checkbox"/> all designated states except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the states indicated in the Supplemental Box	
<input checked="" type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATIVE, OR ADDRESS FOR CORRESPONDENCE	
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: <input type="checkbox"/> agent <input type="checkbox"/> common representative	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) LAWRENCE, William F. LEAHY, Amy Frommer Lawrence & Haug LLP 745 Fifth Avenue New York, New York 10151 United States of America	Telephone No. (212) 588-0800 Facsimile No. (212) 588-0500 Teleprinter No. Agent's registration No. with the Office 28,029 and 47,739
<input type="checkbox"/> Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.	

Box No. V		DESIGNATION OF STATES
<p>The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):</p>		
<p>Regional Patent</p>		
<input checked="" type="checkbox"/>	AP	ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired, specify on dotted line)
<input checked="" type="checkbox"/>	EA	Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
<input checked="" type="checkbox"/>	EP	European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SE Sweden, SL Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT
<input checked="" type="checkbox"/>	OA	OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)
<p>National Patent (if other kind of protection or treatment desired, specify on dotted line).</p>		
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Sheet No. 4

Box No. VI PRIORITY CLAIM				
The priority of the following earlier application(s) is hereby claimed:				
Filing date of earlier application (day/month/year)	Number of earlier applications	Where earlier application is:		
		national application: country or member of WTO	regional application: * regional Office	international application: receiving Office
item (1) 27 November 2002	60/429,631	US		
item (2)				
item (3)				
item (4)				
item (5)				
<input type="checkbox"/> Further priority claims are indicated in the Supplemental Box.				
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:				
<input type="checkbox"/> all items <input checked="" type="checkbox"/> item (1) <input type="checkbox"/> item (2) <input type="checkbox"/> item (3) <input type="checkbox"/> item (4) <input type="checkbox"/> item (5) <input type="checkbox"/> other, see Supplemental Box				
* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)): _____				
Box No. VII INTERNATIONAL SEARCHING AUTHORITY				
Choice of International Searching Authority (ISA) (If two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):				
ISA/ US				
Request to use results of earlier search; reference to that search (If an earlier search has been carried out by or requested from the International Searching Authority):				
Date (day/month/year)	Number	Country (or regional Office)		
Box No. VIII DECLARATIONS				
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable (Check Boxes below and indicate in the right column the number of each type of Declaration))				Number of declarations
<input type="checkbox"/> Box No. VIII (i)	Declaration as to the identity of the inventor			:
<input type="checkbox"/> Box No. VIII (ii)	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent			:
<input type="checkbox"/> Box No. VIII (iii)	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application			:
<input type="checkbox"/> Box No. VIII (vi)	Declaration of inventorship (only for the purposes of the designation of the United States of America)			:
<input type="checkbox"/> Box No. VIII (v)	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty			:

Box No. IX CHECK LIST; LANGUAGE OF FILING		
<p>This international application contains:</p> <p>(a) the following number of sheets in paper form:</p> <p>request (including declaration sheets) : 5</p> <p>description (excluding sequence listing and/or tables related thereto) : 55</p> <p>claims : 4</p> <p>abstract : 1</p> <p>drawings : 9</p> <p>Sub-Total number of sheets: 74</p> <p>sequence listing : :</p> <p>tables related thereto : :</p> <p>(for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below) : :</p> <p>Total number of sheets : 74</p> <p>(b) <input type="checkbox"/> only in computer readable form (Section 801(a)(i))</p> <p>(i) <input type="checkbox"/> sequence listings</p> <p>(ii) <input type="checkbox"/> tables related thereto</p> <p>(c) <input type="checkbox"/> also in computer readable form (Section 801(a)(ii))</p> <p>(i) <input type="checkbox"/> sequence listings</p> <p>(ii) <input type="checkbox"/> tables related thereto</p> <p>Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the</p> <p><input type="checkbox"/> sequence listings</p> <p><input type="checkbox"/> tables related thereto</p> <p>(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)</p>	<p>This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):</p> <p>1. <input checked="" type="checkbox"/> fee calculation sheet : 1</p> <p>2. <input type="checkbox"/> original separate power of attorney : :</p> <p>3. <input type="checkbox"/> original general power of attorney : :</p> <p>4. <input type="checkbox"/> copy of general power of attorney, reference number, if any: : :</p> <p>5. <input type="checkbox"/> statement of explaining lack of signature : :</p> <p>6. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s): : :</p> <p>7. <input type="checkbox"/> translation of international application into (language): : :</p> <p>8. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material : :</p> <p>9. <input type="checkbox"/> sequence listing in computer readable form (indicate also type and number of carriers (diskette, CD-ROM, CD-R or other)) : :</p> <p>(i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application) : :</p> <p>(ii) <input type="checkbox"/> (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter : :</p> <p>(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listing part mentioned in left column : :</p> <p>10. <input type="checkbox"/> tables in computer readable form related to sequence listings (indicate type and number of carriers)</p> <p>(i) <input type="checkbox"/> copy submitted for the purposes of international search under Section 802(b-quarter) only (and not as part of the international application) : :</p> <p>(ii) <input type="checkbox"/> (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quarter) : :</p> <p>(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listing part mentioned in left column : :</p> <p>11. <input type="checkbox"/> other (specify): : :</p>	<p>Number of items</p>
<p>Figure of the drawings which should accompany the abstract: <u>Figure 1</u></p> <p>Language of filing of the international application: <u>English</u></p>		
<p>Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE</p> <p>Next to each signature, indicate the name of the person signing and the capacity in which the person signed (if such capacity is not obvious from reading the request).</p> <p style="text-align: center; margin-top: 20px;">  <u>Amy Leahy</u> </p>		

For receiving Office use only

1. Date of actual receipt of the purported international application:	2. Drawings:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:	<input type="checkbox"/> received:
4. Date of timely receipt of the required corrections under PCT Article 11 (2):	<input type="checkbox"/> not received:
5. International Searching Authority (if two or more are competent): <u>ISA/</u>	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid.

For International Bureau use only

Date of receipt of the record copy by the International Bureau:

For receiving office use only

PCT
FEE CALCULATION
Annex to the Request

International application no.

Date stamp of the receiving Office

Applicant's or agent's
file reference 890003-2003.WO

Applicant UNIVERSITY OF MINNESOTA

CALCULATION OF PRESCRIBED FEES

1. TRANSMITTAL FEE..... \$240.00 T

2. SEARCH FEE..... \$700.00 S

International search to be carried out by US
(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)

3. INTERNATIONAL FEE

Basic Fee

Where item (b) of Box No. IX applies, enter Sub-Total number of sheets } 74
Where item (b) of Box No. IX does not apply, enter Total number of sheets }

b1 first 30 sheets \$476.00 b1

b2 44 x \$12.00 = \$528.00 b2
number of sheets in excess of 30 fee per sheet

b3 additional component (only if sequence listings and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii):
400 x = b3
fee per sheet

Add amounts entered at b1, b2 and b3 enter total at B \$1,004.00 B

Designation Fees

The international application contains all designations.

5 x \$104.00 = \$ 520.00 D
number of designation fees payable (maximum 5) amount of designation fee

Add amounts entered at B and D and enter total at I \$1,524.00 I

(Applicants from certain States are entitled to a reduction of 75% of the international fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the sum of the amounts entered at B and D.)

4. FEE FOR PRIORITY DOCUMENT (if applicable) \$ 20.00 P

5. TOTAL FEES PAYABLE \$2,484.00

Add amounts entered at T, S, I and P, and enter total in the TOTAL box TOTAL

☐ The designation fees are not paid at this time

MODE OF PAYMENT

☐ Authorization to charge deposit account (see below) ☐ postal money order ☐ cash ☐ coupons
☒ cheque ☐ bank draft ☐ revenue stamps ☐ other (specify):

AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT
(This mode of payment may not be available at all receiving Offices)

☐ Authorization to charge the total fees indicated above.
☒ (This check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit) Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.
☐ Authorization to charge the fee for priority document.

Receiving Office: RO/US

Deposit Account No.: 50-0320

Date: 25 November 2003

Name: Amy Leahy

Signature: 